PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2002-349745

(43) Date of publication of application: 04.12.2002

(51)Int.Cl.

F16K 31/06 F02M 51/06

(21)Application number: 2001-156617

(71)Applicant: NIPPON SOKEN INC

DENSO CORP

(22)Date of filing:

25.05.2001

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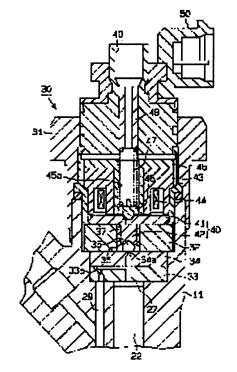
GOTO MORIYASU

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(54) SOLENOID VALVE

(57)Abstract:

PROBLEM TO BE SOLVED: To simplify part constitution by imparting a plurality of functions to one member. SOLUTION: This solenoid valve 30 is fixed to an injector body 11 by a retaining nut 31. A movable member 40 oppositely reciprocating to a core 43 is housed in a valve cylinder 32 of the solenoid valve 30. The movable member 40 is composed of an armature part 41 and a sliding shaft part 42. A spherical member 36 for constituting a separate valve member is arranged on the tip (the lower end of a drawing) of the sliding shaft part 42. The movable member 40 is composed of a soft magnetic material, and a thin hardened layer by surface treatment or heat treatment is arranged on the surface. When carrying an electric current to a coil 44, the



armature part 41 is attracted to the core 43, the movable member 40 moves, and the spherical member 36 moves to a valve opening position according to the movement.

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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]